



Atty. Docket No.: 25436/1150

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge, et al.  
Serial No.: 09/338,855  
Filed: June 23, 1999  
Entitled: "Methods of Enriching for and  
Identifying Polymorphisms"

Examiner: Chakrabarti, A.

Group Art Unit: 1655

RECEIVED

AUG 31 2001

TECH CENTER 1600/2900

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. EL728732353US** on this date, **August 28, 2001**, postage prepaid, in an envelope addressed to  
Commissioner for Patents, Washington, D.C. 20231.

Mark J. FitzGerald

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents  
Washington, D.C. 20231

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Response to Office Action mailed February 28, 2001;
2. Amendment Transmittal Letter (includes Petition for Extension of Time);
3. Exhibit "A";
4. Check in the amount of \$445.00 for the requisite fee; and
5. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 25436/1150.  
A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: August 28, 2001

Name: Mark J. FitzGerald 45,928 for  
Kathleen Williams 34,380  
Palmer & Dodge LLP  
One Beacon Street  
Boston, MA 02108  
Tel: 617-573-0100



Express Mail Label No.: EL728732353US  
Date of Deposit: August 28, 2001

#12/B  
9/10/01  
na

Atty. Docket No.: 25436/1150

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge, et al.  
Serial No.: 09/338,855  
Filed: June 23, 1999  
Entitled: "Methods of Enriching for and Identifying Polymorphisms"

Examiner: Chakrabarti, A.

Group Art Unit: 1655

Commissioner for Patents  
Washington, D.C. 20231

RECEIVED

AUG 31 2001

TECH CENTER 1600/2900

AMENDMENT

Dear Sir:

This is filed in response to the Office Action mailed in the above-noted patent application on February 28, 2001. Kindly consider the following amendments and remarks.

In the Claims:

Please replace claims 1, 57 and 69 with amended claims 1, 57 and 69 as follows:

1. (Amended) A method of enriching for and identifying a nucleic acid sequence difference with respect to a reference sequence comprising:

B1  
a) contacting a nucleic acid sample with a molecule comprising a sequence-specific binding activity under conditions which permit specific binding, wherein said sample comprises a subset of nucleic acid molecules having a sequence that binds to said sequence-specific binding activity, and wherein a bound subset of nucleic acid molecules is retained by the sequence-specific binding activity, such that the subset of bound nucleic acid molecules is enriched for molecules comprising the sequence recognized by the sequence specific binding activity; and

b) detecting a sequence difference with respect to a reference sequence in the subset of nucleic acid molecules,

wherein steps (a) and (b) enrich for and identify a nucleic acid sequence difference with respect to a reference sequence.